NETIO PowerPDU 4KS

PowerPDU 4KS is a smart PDU (Power Distribution Unit) with four power outputs (4x IEC-320 C13).

PDU measures power consumption (A, kWh, TPF, W, V, Hz) and switching On/Off each power output individually.

Each output can be switched over the web, the NETIO Cloud service, or with a Mobile App.

Open API for 3rd party system integration.

- 4x IEC-320 C13 10A output (110/230V)
- Power metering per each output
- **ZCS** - Zero Current Switching

- Open API (10 protocols, M2M API)
- Can be controlled with a mobile app
- Supports NETIO Cloud

Each output is metered and can be controlled from the product web interface (On/Off/power-cycled).

To switch the outputs on in a sequence, a power-up delay interval can be configured for each output.

NETIO PowerPDU 4KS can be mounted in 19" rack cabinets – horizontally, vertically, or as a 1U device.

The **NETIO Mobile2** app controls each output individually over LAN (local network) or NETIO Cloud.

NETIO Cloud is a SSL-secured service for controlling the outputs from anywhere (Web or Cloud API).

Open API allows controlling the outputs over the network using various protocols (http XML/JSON, Modbus/TCP, MQTT, SNMP, Telnet and more...).

Power consumption (A, kWh, TPF, W, V, Hz) metered individually on each power output.

DI (Digital Input) can control the outputs or count S0 pulses (ext. power metering).

AV drivers make it easy to connect NETIO sockets to a professional Audio/Video control systems such as Neets, Crestron, Control4, RTI, Savant and more.

PING based WatchDog (ICMP detection)

Power consumption WatchDog (IDLE detection)

The Scheduler function (week-day calendar)

⚡ **Controlling power to IT infrastructure (servers, KVM, routers)**

📱 **Remote switching off/on or power cycling**

⏻ **Remote control of a device with mobile app (LAN/Cloud)**

🖥 **Central web interface for multiple products (NETIO Cloud)**

PowerUp sequence - outputs are switched on with defined timing

📄 **Drivers for AV media/installations (BrightSign, KRAMER, ELAN, RTI, Crestron, Control4, …)**

🌿 **Energy Savings**

FEATURES

- 4x IEC-320 C13 power output
- Each outpt can be switched on/off individually
- Methods for controlling each output:
  - WEB browser
  - Mobile App (NETIO Mobile 2)
  - Open API (10 protocols)
  - NETIO Cloud

- **NETIO Mobile2:** Mobile app
- **NETIO Cloud:** Paid service

- **ZCS** (Zero Current Switching): The relay is switched when the current crosses zero. This allows switching devices with a high inrush current.

- **Ping Watchdog** - autonomous ping restarter
- **Power Watchdog** - IDLE mode detection & restarter
- FW upgrade over the Web interface
- **The Scheduler function** - time based switching

- **Open API (protocols)**
  - JSON over http
  - Modbus/TCP
  - MQTT-flex
  - Telnet
  - SNMP v1/v3
  - XML over http
  - URL API - http get
  - HTTP Push JSON / XML

- Supported protocols: http, DNS, NTP, uPNP, DHCP, ICMP, TCP/IP

SUPPORT FOR USERS AND DEVELOPERS

- **NETIO Wiki** – library for developers
- **ANxx** (Application Notes) with examples
- **NETIO Drivers** – for AV control systems

SPECIFICATIONS

POWER

- Power input: IEC-320 C14 (110/230V AC) 10A
- Power output: 4x IEC-320 C13/10A
- Each output: On/Off (SPST-NO relay, IOC)
- Device power consumption: Max 1.7 W
- **PowerUp State:** Default output state (On/Off/Last state)
- **PowerUp Delay:** Delay before switching the output on

INTERFACES

- LAN 10/100 Mbps (RJ45)
- LED indicators in the RJ45 jack
- 4x LED indicator (output state)
- 1x DI (Digital Input) with 12V DC (max 120mA)

ELECTRICAL MEASUREMENTS

- 4x Current [A]
- 4x Consumption [Wh]
- 4x Reverse Energy [Wh]
- 4x Power [W]
- 4x TPF (True Power Factor)
- Frequency [Hz]
- Voltage [V]
- Phase [°]
- Accuracy: <1% (25°C)

PACKAGE CONTENTS

- NETIO PowerPDU 4PS
- QIG (printed Quick Installation Guide)
- Power cable according to the ordering code

DIMENSIONS / WEIGHT

- PowerPDU 4PS: 220 x 40 x 120 mm / 0.8 kg
- Package: 255 x 73 x 204 mm / 1.15 kg

OPERATING CONDITIONS

- Temperature: -20 °C to +65 °C
- For indoor use only (IP30)

STANDARDS: 1999/5/EC, EN 55011, ed.3:2010, EN 61326-1, ed.2:2013, EN 61010-1, ed.2:2011, EN 50581: 2012

NETIO PowerPDU 4KS	LAN PDU with 4 IEC-320 C13 metered outputs, SNMP, MQTT-flex, NETIO Cloud and more.
NETIO PowerPDU 4KS EU	Package with a PowerPDU 4KS and an EU (Europlug) power cable.
NETIO RM1 4C	Metal bracket to 1x PowerPDU (4C/4PS/4KS) device into a 1U space in a 19" rack frame.
NETIO RM2 2x4C	Metal bracket to install 2x PowerPDU (4C/4PS/4KS) devices into a 1U space in a 19" rack frame.
NETIO RM3 4C vertical	Metal bracket to fasten 1x PowerPDU (4C/4PS/4KS) device to a vertical bar in a rack frame.
NETIO RM4 4C universal	Metal bracket for universal installation of 1x PowerPDU (4C/4PS/4KS) device in a rack frame.